617-495-1812

```
source
                   RESULT 2
AI138780/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BASE COUNT
ORIGIN
                                                              LOCUS
                                                                                                                                                                                                                                                 ORGANISM
                                                                                                                                                     ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                           AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                               JOURNAL
                                                                                                                                                                                                   KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                               Note-Torgan: Pancreas; Vector: pBlugscript SK(-); Site_1:
Not1; Site_2: XhoI; cDNA made by olygo-dT priming.
Site_selected on agarose gell. Average insert size ~1kb. 5'
AnoI site was destroyed after directional cloning.
Amplified once. Contact information: Hiroshi Inoue, MD,
Metabolism Div. (Alan Permutt Jab), Washington University
School of Medicine, Box 8127, 660 South Euclid Ave., St.
Louly, MO 63110, B-mail: hinpured:mgate.wustl.edu, Tel:
314-362-1916, Fax: 314-747,6692."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGAAAACACACTTAAC 1054
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SGGTAGATGTGT 1114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TGGCCTC 1174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       874
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GAAGAAATTGAAGAAAC 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAAACACACTTAAC 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GTAGATGTGT 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCCTC 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TCAAAGGAAGATTGAACAAATGGCCCTCCCC 694
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 rccaccgargcrartrcaagacararccagrggaa 754
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61 AACTGTTATCCCATTACCTTTCAAGTCCACGATGCTATTTCAAGACATATCCAGTGGAA 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121 TAACAGTGATATGGTTCTTGTTACATGAGTGTGTATTTACTGTTAGGAGATTGTATATTT 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAAAIGITICAAAGGAAGAITGAACAAAIGGCCCICCCC 60
              Email: dmelron@biohp.harvard.edu
Library was constructed by Dr. Hiroshi Inoue DNA sequencing by:
Washington University Genome Sequencing Center For information
Obtaining a clone please contact: Dr. Hiroshi Inoue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SGGGGACAGAGAGAATACTATAAAAGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GTATAAATGTGTACATTTATTTAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATAAATGTGTACATTTATTAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACARGAATGTGTATTTACTGTTAGGAGATTGTATATTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             181 TAAGTTACCATGATTAAAAGTGTGTAAAAAAGGGGGACAGAGAGAAATACTATAAAAGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTTGAAGAAATTGAAGAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CCTGCAGATCTTCTAAGAACCACACTAATGCAAGCGTGACAGAGAAACCTCTTTC 595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGCAGATCTTCTAAGAACCACACTAATGCAAGCTTGACAGAGAAACCTCTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             rreacricignarrarringararrenareagierarrareagierer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 13; Length 595;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGACTICTGTAATTATTTTGATATICTATCAGTGTATTATGAGAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421 AATCTTACCGTTTCTAGATATTAAGTGAATATGTAACTCCTGTCCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1055 AATCTTÁCACGTTTCTAGATATTAAGTGAATATGTAACTCCTGTCCA
                                                                                                                                                                                                                                                                                                                   /tissue_type="Purified pancreatic islet'
/lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       361 raccarcactaacacacacrerraccriraccricaarrraacrara
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   resessiresicaraaaaarrassarcasiy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TAAGAGAAACTGTTTGCTTTACCTGAATTTAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         .9e-132;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGGGTAGGTGATAAAAATTAGGATC)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         241 CATGITACTCATGCATTGAACTTTGTGTGTTTTTCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Mismayches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGAACTITGTGTGTTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   35.0%; Score 591 %;
99.7%; Pred. No. 3.9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  191
                                                                                                                                                                                                                            /organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                 clone lib="HR85 islet"
                                                                                                                                eq primer: -40RP from Gibco
Rgh quality sequence stop: 453.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    815 TAAGTTACCATGATTAAAAGTGTGTAAAA
                                                                                                                                                                                                                                                                                               /clone="IMAGE: 6040440"
                                                                                                                                                                                                                                                 /mol_type="mRNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               117 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             755 TAACAGTGATATGGTTCTTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      695 AACTGTTATCCCATTACCTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 AGAAGGAAAGACAAAGACTT
                                                                                                            hinoue@im.wust1.edu)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          635 AGAAGGAAAGACAAAGAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local Similarity 99. Matches 593; Conservative
617-495-8557
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CATGTTACTCATGC
                                                                                                                                                                                                        1. .595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     935 AGTGGGTTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   301 AGTGGGTTTC)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              995 TAGGATCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1115 ATC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             481 AT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           875
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                        source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SE COUNT
                                                                                                                                                                              TURES
```

Q,

ō ≿ ă ⋩ ä ጵ

<u>≻</u>

```
Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library went through one round of normalization to Cot5, and was constructed by Bento Soares and M. Fatima Bonaldo. "
102 c 91 g 166 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /clone_lib="Scares_testis_NHT"

//clone_lib="Scares_testis_NHT"

//clone="Vector: pT/T3D-Pac (Pharmacia) with a modified
polylinker; Site=1: Not 1; Site=2: Eco RI; 1st strand cDNA
was prepared from mRNA obtained_from Clontech Laboratories
AII38780 499 bp mRNA linear BST 29-OCT-1998 qe03g12.xl Soares testis NHT Homo sapiens cDNA clone IMAGE:1737958 3' similar to TR:Q92772 Q92772 P56 KKLFMRE PROTEIN KINASE: ,, mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Email: cgapbs r@mail.nih.gov
cDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima Bonaldo
, Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CDNA Library Arrayed by: Greg Lennon, Ph.D.

DNA Sequencing by: Washington University Genome Sequencing Center Clone distribution: NGI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at:

Waw-bio.llnl.gov/bbrp/image/fimage.html
Insert Length: 279 Std Brror: 0.00
Seq primer: -40ml3 fwd. ET from Amersham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             539
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                499 GIATCAGGACCTGCCCTGTCAGATGATTCAGGGGCTGATTTGCCTCAAATGGAACACCAG 440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (Dases 1 to 499)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     439 CACTGAGAACCATTTTGGTTCTGAACTGGATGATGCTCTTGCACTTGAGATGACTCTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         420 GTATCAGGACCTCCCCTGTCAGATGATTCAGGGGCTGATTTGCCTCAAATGGAACACCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             480 CACTGAGAACCATTTTGGTTCTGAACTGGATGCTCTTGCACTTGAGATGACATCTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     540 TTGCAGCAAGAGTGCTGATATCCCAAGAGGAGAGATTCATGGTTTTGATCATTTCCTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 499;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 475; DB 9; Le
Pred. No. 6.7e-104;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 28.2%; Score 475; DB Best Local Similarity 100.0%; Pred. No. 6.78 Matches 475; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Contact: Robert Strausberg, Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    High quality sequence stop: 393.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /clone="IMAGE:1737958"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /mol_type="mRNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       91 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /lab host="DH10B"
                                                                                                                                                 AII38780.1 GI:3644752
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /sex="male"
                                                                                                                                                                                                                     Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                    Tumor Gene Index
Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1. .499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             140 a
                                                                                                                                 38780
```

ORIGIN Query Match Best Local Similarity 86.1%; Pred Best Local Similarity 86.1%; Pred Matches 574; Conservative 0; M Qy 219 AGTAAGAAAAGAAAATCTCC Qy 279 CATCTCCCTGAACTAACAGACTCC Qy 279 CATCTCCCTGAACTAACAGACCCTC Qy 279 CATCTCCCTGAACTAACAGACCCTC Qy 279 CATCTCCCTGAACTAACAGACCCTC Qy 389 GAGAGCAAAATTCTTTCAGAATCT Db 501 GAGAGCAAAATTCTTTCAGAATCT			819 879 879 879 1 37 1 37	KEYWORDS EST. SOURCE Homo sapiens (human) ORCANISM Homo sapiens Eukaryota; Metazoa; Chord Mammalia; Eutheria; Prima REFERENCE 1 (Jases 1 to 475) AUTHORS Hillier, L., Allen, M., Bow Krizman, D., Kuczba, T., La 'J., Moore, B., Schellenbe White, Y., Wylie, T., Water TITLE WashU-NCI human EST Proje
660 TGTTTCAAAGGAAGATTGAACAAATGGCCCTCCCCAACTGTTATCCCATTACCTTTCACG 719 [EM272057 1938e04.y1 HR85 islet Homo sapiens CDNA 5' similar to TR: 2' O9TTKO SEK/THR KINASE KKIAMRE.;, mRNA sequence. 19372057 19372057.1 GI:17965335 19372057.1 GI:17965335 19372067.1 GI:17965335		MA 021 Fal: 6 Fax: 6 Email: Librax Librax Obtain Obtain Obtain High c	/clome lib="HR85 islet" //note="Organ: Pancress, Vector: Bluescript SK(-); Site_1: //note="Organ: Pancress, Vector: Bluescript SK(-); Site_1: Not1; Site_2: Xhol; cDNA made by Sligo-dT priming. Size-selected on agarose gel. Average insert size ~1kb. 5' Xhol site was destroyed after directknal cloning. Amplified once. Contact information: Hycshi Inoue, MD, Metabolism Div. (Alan Permutt Lab), Washyngton University School of Medicine, Box 8127, 660 South Endlid Ave., St. Iouis, MO 63110, E-mail: hinousesingate.wustl.edu, Tel: 314-362-1916, Fax: 314-747-2692."
6 6 6 6 6 6 6	RESULT 3 AM272057/c. ACCUS DAFINITION ACCUSSION VERSION VERSIO	REFERENCE AUTHORS TITLE JOURNAL COMMENT	FEATURES	BASE COUNT

475 bp mANA linear EST 15-OCT-1997 NHT Homo saplens cDNA clone IMAGE:744954 owles, L., Dubuque, T., Geikel, G., Jost, S., Lacy, M., Le, N., Lennon, G., Marra, M., Martin bergy, K., Steptoe, M., Tan, F., Theising, B., Ject AAAAKGGGGACAGAGAAATACTATAAAAGGCCATG 878 638 GITTCAAAGGAAGATTGAACAAATGGCCCTCCCCAACT 698 818 CCAGGACAGATGTCCGTTTGCCTGAACTAAACTATAAT 278 758 TGGGAGGCATAGCTCGAAATTCCAGGCTAACAAGAAA 338 IATCAGGACCTCCCCTGTCAGA/GATTCAGGGGCTGAT 458 422 518 TGATATCCCAAGAGAGAGATTCA 578 291 ccaccearecratricaacacararccaerecaaraac 171 CAGGCCAGATGTCCGTTTGCCTGAACTATAAT 562 CCTGCACACC 398 411 351 rdata; Craniata; Verreprata; Buteleostomi; mates; Catarrhini; Hominidae; Homo. CCACCGATGCTATTTCAAGACATATCCAGTGGAATAAC ACTGAGAACCATTTTGGTTCTGAACTGGATGATGTCT AACTGCCTACATTTTCTGAGGAAGGCCTTCTAGAAGAA Gaps :68 Length 621; CTCGAATTCCTTCTCGCTGCTATTC 4; Indels ore 472.6; DB 12; ed. No. 2.7e-103; Mismatches 4;

```
1017
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TCTTCTAAGAA 1193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   268 ACTGCTGATGTTTGGTCAGTGTATTGTGA-------CCTCTGTACTGGTATAGAA 2676
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTCTG 1250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2736
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PAT 26-SEP-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATACAAATG-----TCATGCATTGAACTT 2419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FIRGA-CITCIGIAATT 1133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGTITCIGIGATI 2627
                                                                                                                                                                                                                                                                                                                 2314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                chaacinaaciccaaaahanachicaaaaaatarcicacinaririnaggca 2567
                                           2337
                                                                                                                                  TGGAG 2197
                                                                                                                                                                                                                       2198 argiricaaaadkadaridaadaagracrcarccc-acrdriarcccarcaccrrrcaa 2256
                                                                                                                                                                                                                                                                                                                                                                                                      Tradactrargradarradactea 2374
                                                                                                                                                                                                                                                                                                                                                                                                                                                 897
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2420 --hitritinichidiahahigaangarattahidigagadigagattaahidagagadaga 2477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACTEGGATCAGTAAGAGAAACTGTT 2507
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACAATCTTACACGTTTCTAGATA 1075
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 (bases 1 to 3080)
Thompson, R.F., Gomi, H. and Sun, W.
cDNA, genomic, and predicted protein sequences of learning-induced
kinases
                                                                                                                                                                                                                                                                     778
                                                                                                                                                                                                                                                                                                                                                          RAGGAGATTGTATTTTAAGTTA-CCATGATTAAAAGTGT 837
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WIAITITAGGAGIGGGITICGIGGGGGIAGGIG 957
                                                                                       A 658
                                                                                                                                                                              CCTTTCAC 718
                                                                                                                                                                                                                                                                                                              AAGGCCATGTTACTCATGCATTGAACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2677 CTACTATAATGCAAATCTGGCAGTGAAACCTTTTATTTCTAATGATTTAGTGCAAGTCGG
CTTGCAGCAAGAGTGCTGATATCCCAAGAGGAGAGATTCATGGTTTTGATCATTTCCTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAACTAGGATCAGTAAGAGAAACTGTT
                                         rccaacaaagcriccricararccragaagaagaagaagaagagcririrgagggririgcrirc
                                                                                       TGCCTGCATTTTCTGAGGAAGGCCTTCTAGAAGAAGAAGAAGACAAAGACTTCG
                                                                                                                         ijilili ii iiili ii iiililililiiii iilililili
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1194 CCACACTAATGCAAGCTTGACAGAGAAACC---TCTTTCGAATGACTTACTAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1251 GCATTGGTTAGTTCCATGTATTGTAAGATTCTGGTGCTAATGCTCCAT 1298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2737 ACATT-GAGAGTCCTCTGTATTTTAAGATTCTGGTGCTAAATGTTCCT 2783
                                                                                                                                                                              GGAAGATTGAACAATGGCCCTCCCCAACTGTTATCCCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TTTGATATTCTATCAGTGTATTATGAGACTCTGGCCTCCCTGCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2568 gapadangraggraphcigccarccaricgaaagargaararcrrr
                                                                                                                                                                                                                                                                        TCAAGACATATCCAGTGGAATAACAGTO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              fa-atatgtaactcctgtccatgggtagatgtgtat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TTTAACTATGAAAACACACTT--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              843 t
                                                                                                                                                                                                                                                                                                                                                                                                        2315 Argaargrerarrecrerragaaacrerera
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Patent: US 6428994-A 3 06-AUG-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                958 ATAAAATTAGGATCAGIXGAAGAAAATTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 3 from patent US 6428994
                                                                                                                                                                                                                                                                                                                                                                                                                                                    TACTATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        898 IGIGITITICIGIALAAAIGIGIACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /organism="unknown"
556 c 751 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            751 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2375 GTGAGAAAG-----AAGAGAGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                 838 GTAAAAAGGGGGACAGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AR221994.1 GI:23329320
                                                                                                                                                                                                                                                                                                                                                               779 ATGAATGTGTATTTACTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1. .3080
                                                                                                                                                                                                                                                                        719 GICCACCGAIGCI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1018 TGCTTTACCTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2478 AGA-----
                                                                                                                                                                                659 ATGTTTCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2508 rccrrracc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              930 a
                                                                                                                                     2138 TGAACTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1076 TTAAGD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AR221994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Unknown
                                                                                         599 TGA
                                              2078
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1134,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AR221994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   VERSION
                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                  셤
                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                              엄
                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                         ò
                                                                                                                                                                                ò
Direct.Submission
Submitted (16-JUN-1999) Hiroshi Gomi, The Institute of Physical and Chemical Research (RIKEN), Brain Science Institute (BSI); 2-1 Hirosawa, Wako, Saltama 351-0198, Japan (E-mail:hgomi@brain.riken.go.jp, Tel:+81-48-467-9724, Aax:+81-48-467-9725)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FCAELIHIDFFONDGFARRFSOELOMKVOORDRNISLSKSONRKGRKEKONSIGEER
FCAELIHIDFFONDGFARRFKIKGSKIDGEKVDKGNJAAVSHTVGPSHIKAVPSTSLR
DCSNVSDHTRNDGARPECARIPELTHULEPLTHULESAVAPGINSGMOTIFGVOSTRVDEKTKKVCIPFV
KPNRESSPSIYNMULVTSVSSESKNILOANKKRGESKEKTDYRLPELAYNHILPELAALEG
IARNSRLIRKENKILLSÅGRIPSLAATDLHTPNIJAHQVNSGSPLSDGSEADSPWMEHQH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1778 CCAAGACAGATGT&CGTTTGCCTGAACTATAATCATCTCCCTGAACTAAAGTGT 1837
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1838 TGGAAGGCAXTGCTCGAAATTCTAGGCTCATAAGAAAGGAGAACAAAATTCKTTCAGAAT 1897
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1898 CTCGAATTCCTTCTCTGGCTGCCATTGACCTGCACACACCCAACATTGCAGTACAACAGG 1957
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2017
                                                                                                                                                                                                                                                                                                                                                                                                                                                 KKIAMRETKLIKOLRHENLVNILLEVCKKKKRWYLVFBFVDHT/LDDLELFPNGLDDOV
VOKYLEOTI NGIGFCHSRNI IRDI PERMILYGOSGOVYKO-OSPGRARTLAAPGEVYTD
YVATRWYRAPALVGOVKKGKAVDVWAIGCLYTEMMGER/FPGDSDIDOLYLIMRCL
GNLI-PRHOELFWYGWVFAAVRLEPIKSBEPLERRYPKLSKVVIDLAKKCLHYDPDRRP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               scriccrecaarraarrcrecaa 1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1601 TGGGGACT---ATCCCAGGAGTTCAGAGTTACAGAGAGATGAGAAGAGACTAAGAAGTATT 1657
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATTIATAATATGAATGTGA 1717
                                                                                                                                                                                                                                                                                                                                                                                                                                trans hation="mekyenlglygegsygmymkcrnkdsgrlyaikkflesdddkmy"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FGAACTAAGAGCAC 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATCAGG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GC 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     122 CTATTICCATTIGITAAACCGAACAGGACATICCCCATCAAGCATTAAACATTAATGTGA 181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TTTCAGAAT 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2018 ACTGARGATCACTTGGTGGTTCTGATCTGGATGCTGCTGTAGCTCTTGGGATGGCACCCT 207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GTGGATGAGAAACTAAGAAGTGTT 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGAAAAGAAGAGAATACT 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACTGAGAACCATTT - - TGGTTCTGAACTGGATGATGCTCTTGCACTTGAGATGACATCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SCAGITGCICCCAGCATIAATICIGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1958 JETCHELL CCCCCCCTCLASAIGNICAGAGGCCGAITCGCCITGGAIGGAGCACAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         421 TATÉAGGACCTCCCCTGTCAGATGATTCAGGGGCTGATTTGCCTCAAATGGAACACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               37.4%; Score 620.6; DØ 4; Length 3153; 76.7%; Pred. No. 3.5e/141;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    361 CTCGAAT/CCTTCTCTGGCTGCTATTGACCTGCACACCCCCCAGTATTACATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TCGAAATTCCAGGCTAACAAAGAAGAGAGCAAAT
                                                                                                                                                                                                                                                                                                                   ote="corresponds to mouse KKIAMRE-beta"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITGCCTGAACTAAACTATAATCATCTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            182 CCACATTAGTCTCTAGTGAKAAAACCT-CTTTGGGCAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1658 graficcarificariadoccaaAraaacaricrocarcad
                                                                                                                                                                                                                                                                                                                                                            product="Ser/Thr kinase KKIAMRE"
                                                                                                                                                                                /organism="Oryctolagus cuniculus"
/mol_type="mRNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           229;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3.5e/1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              860 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1541 IGGCCATTCCCCCTTACACACATCTTACTCC
                                                                                                                                                                                                                                                                                                                                                                                     probein id="BAA88508.1"
db xhef="GI:6624279"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Mismat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2 TGGCAATTCCCCCACTTACACACAATCTT
                                                                                                                                                                                                                            xref="taxon:9986"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                62 TGGGGACTGAGACTATACCAATTCAGG
                                                                                                                                                                                                                                                                   tissue type="brain"
22. .2022
                                                                                                                                     Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         777 g\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            KPNKHSPSGIYMMVV
                                                                                                                                                                                                                                                                                                                                         don_start=
                                                                                                                                                                                                                                                  sex="male"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              577 C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches 1003; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241 CCAGGACAGATGTCC
                                                                                                                                                             . .3153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          301 TGGGAGGCATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              939 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                481/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BASE COUNT
  TITLE
                                                                                                                                                                                                                                                                                             CDS
                                                                                                                                     FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORIGIN
```

d

ò

셤

ð

g

à

셤

ò

g à 심 à 엄 ð

ö

g à

2 TGGCAATTCCC 1468 TGGCCATTCCC 62 TGGGGACTGAG 1528 TGGGGACTTT 122 CTATTCCATTT 1585 GTATTCCATTT 1685 GTATTCCATTT 1685 CCACATTAGTC 1615 CCACATTA	TGGCAATTCCCCCACTTACACACAATCTTTCTGCAGTTGCTCCCAGCATTAATTCTGGAA 61
	-
•	
•	TGGGGACTGAGACTATACCAATTCAGGGTTACAGAGTGGATGAGAAAACTAAGAAGTGTT 121
CCACATTAGTO	н н
	CCACATTAGTCTCTAGTGAAAAACCT-CTTTGGGCAAGTAAGAAAAGAA
241 CCAGGACAGAT 1705 CCAAGACAGAT	CCAGGACAGATGTCCGTTTGCCTGAACTAAACTATAATCATCTCCCTGAACTAAGAGCAC 300
301 TGGGAGGCATA 1765 TGGAAGGCATT	TGGGAGGCATAGCTCGAAATTCCAGGCTAACAAAAGAAAAGGAAAATTCTTTCAGAAT 360
361 CTCGAATTCCT 1825 CTCGAATTCCT	CTGGAATTCCTTCTGGGGGGGGAATTGACCTGGACCACCCCAGTATTACATTACATCGG 420
421 TATCAGGACCT 	TATCAGGACCTCCCTGTCAGATGATTCAGGGGCTGATTTGCCTCAAATGGAACACCAGC 480
481 ACTGAGAACCA 1945 ACTGAAGATCA	ACTGAGAACCATTTTGGTTCTGAACTGGATGATGCTCTTGCACTTGAGATGACATCTT 538
539 CTTGCAGCAAG 	CTTGCAGCAAGAGTGCTGATATCCCAAGAGAGAGATTCATGGTTTTGATCATTCTTC 598
9 TGAACTGCCTG	TGAACTGCCTGCATTTTCTGAGGAAGGCCTTCTAGAAGAAAGGAAAGACAAAGACTTCCAA 658
9 ATGTTTCAAAG 5 ATGTTTCAAAA	ATGITICAAAGGAAGATIGAACAAATGGCCCTCCCCAACIGITATCCCAITACCTITCAC 718
719 GTCCACCGATG 2184 GTCCACTGATG	GECCACCGAIGCTAITTCAAGACAIAICCAGIGGAAIAACAGIGAIAIGGTICTIGIIAC 778
779 ATGAATGTGTA 242 ATGAATGTGTA	argaaigtgirittacigttaggagattgialattataagita-ccatgattaaagigt 837
838 GTAAAAAGGG 	GTAAAAAAGGGGACAGAGAGAAATACTATAAAAGGCCATGTTACTCATGCATTGAACTT 897
8 TGTGTGTTTTC	
2347TGTGTTATC	
958 ATAAAAATTAG 	ATAAAAATTAGGATCAGTTGAAGAAATTGAAGAAACTAGGATCAGTAAGAGAAACTGTT 1017

1018 TGCTTTACCTGAATTTAACTATGAAAACACACTTAACAATCTTACACGTTTCTAGATA 1075	AB029065 Mus musculus Kkm mRNA f cds. AB029065 AB02906 AB02013 AB	location/QualXfiers location/QualXfiers // organism="Mus myeculus" // mol_type="mRNA" // strain="C57B1/6" // tissue type="mRNA" // tissue type="brain" // dev_stage="adult" // tissue type="brain" // dev_stage="adult" // tissue fib="min-zap" // issue fib="min-zap" // issue fib="min-zap" // codon stage="adult" // product="Ser/Thr kinase KKIAMRE-Deta" // Arghartaria id="BaARBA27.1" // db xref="adulthropercycopy comparison of the product of the produ
	ABCOULT 5 LOCUS LOCUS LOCUS LOCUS LOCUS LOCUS ACCESSION VERYORDS SOURCE ORGANISM TITLE JOURNAL REFERENCE AUTHORS TITLE JOURNAL TITLE JOURNAL TITLE JOURNAL TITLE JOURNAL	FEATURES source gene CDS